Common Evaluation Methodology Editorial Board (CEMEB)

ISO/IEC JTC 1/SC 27/WG 3 N475

Presentation to WG 3 Experts

Madrid, 1999-04-20

Common Evaluation Method
Study Period

ISO/IEC JTC 1/SC 27 WG 3
Madrid, Spain
April 20, 1999

Agenda

- CEM Overview

- Relationship to 15408

- Relationship of CC CEM to ISO

- Future

- This is not detailed description of the CEM

Overview

- CEM technical minimum to apply 15408
- CEM Part 1, V0.6 of Jan '97
  - General Model
  - Concepts
- CEM Part 2, V0.6 of Jan '99
  - http://csrc.nist.gov
  - Annex C, describes discussion points
    - CEMOR, comments approach

CEM was ….

- CEM
  - developed in staggered parallel to 15408
  - organised by EAL (EAL1 - EAL4)
    - thought to be basis of first MRA
  - specific evaluator actions for meeting 15408 components

Out of scope

- CEM is not intended to be ….
  - Scheme definition
    - Quality assurance
  - All information needed for evaluation
    - Evaluator expertise (training)
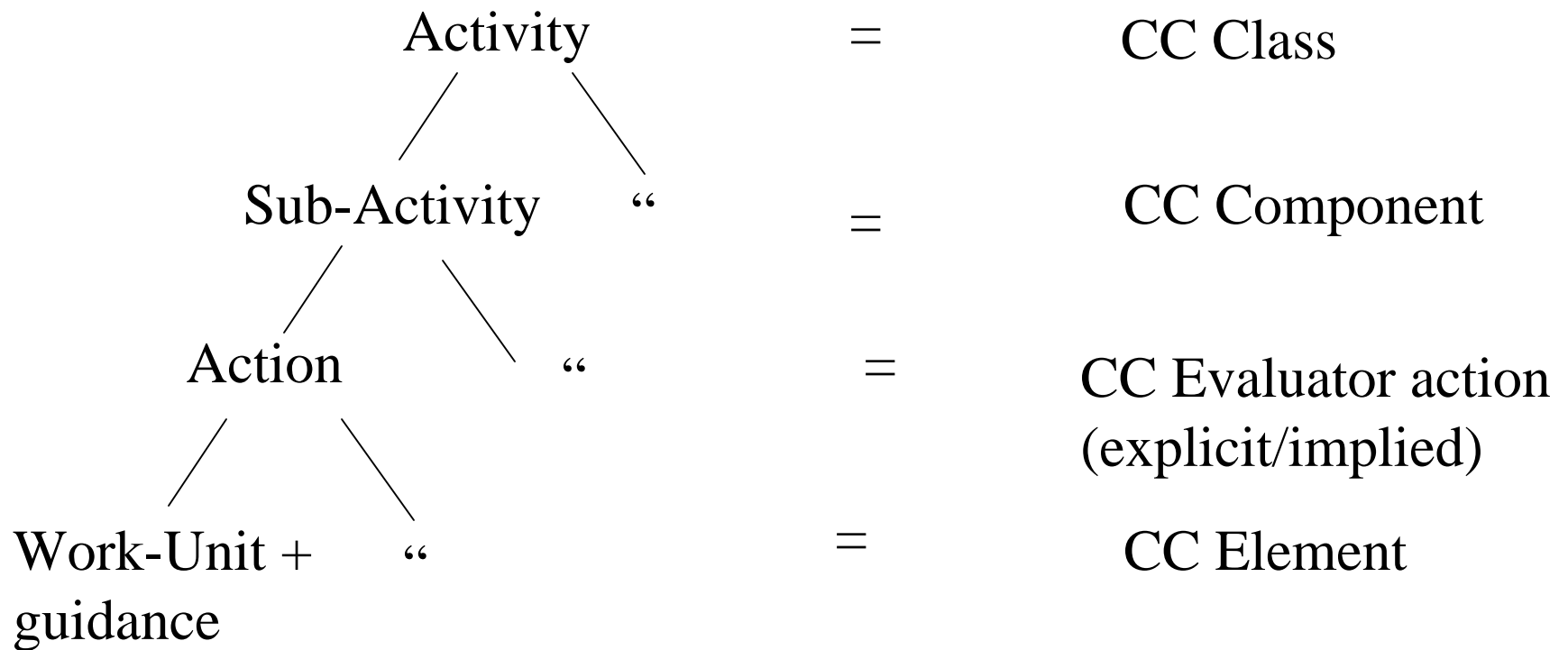 - Mutual Recognition process

Basic Assumptions

- Evaluations live in context of scheme
  - Minimum standards
  - Acceptable through MRA(s)
- Work performed appropriate for level of assurance gained (cost effective)
- Evaluators independent and objective
- Results repeatable - consistency

Intended Coverage

- CEM is intended to cover all 15408….
    - EALs, assurance packages
    - augmentation
    - reuse
    - reevaluation
    - extension
- ……… sooner or later

CEM "v" 15408

Activity	=	CC Class
Sub-Activity "	=	CC Component
Action "	=	CC Evaluator action (explicit/implied)
Work-Unit + guidance "	=	CC Element

Evaluation Flow

- Sponsors provide evidence
- Evaluators pass verdicts
- Evaluators justify verdicts (ETR)
- Oversight issues certificate

Annex C Discussions

- General vs. specific Guidance
- Separation + Reference Monitor
- Calculating Attack Potential
- Scope of TOE
- CEM Organisation
- Verb usage
- Obvious Vulnerabilities

Annex C Discussions (cont.)

- Some components cannot have verdicts
- Guidance documents and vulnerability analysis
- Vulnerabilities precluded by assumptions
- Impact of evaluation on guidance documents
- Role of schemes

CC Project Expectations ….

- Broader based application
- Continued cooperation
- What would methodology be?
  - Standard ?
  - Technical Report ?
- Technical interaction

Timeline

- CEM Part 2, V0.6 review by end April '99

- CEM V1.0, by end Aug '99

- Plans post V1.0 being developed

- CEMEB Meetings scheduled post Aug '99

- CEMEB Panel, NISSC October '99